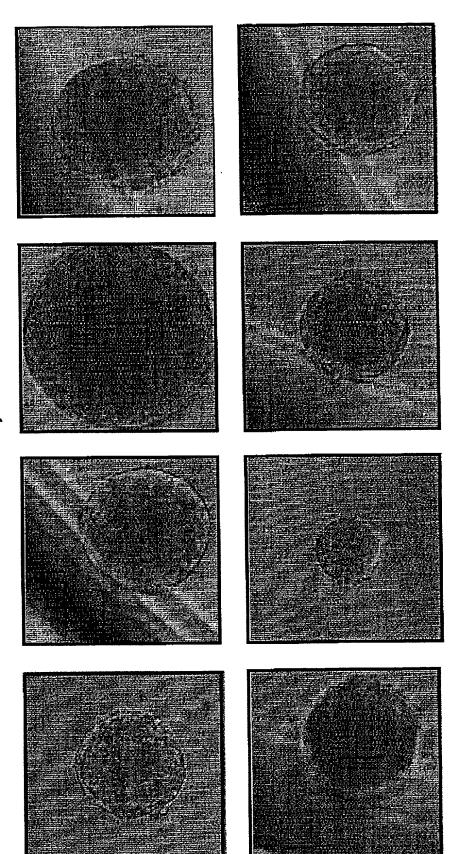


FIG. 1

Clonal Expansion of Neural Stem/Progenitor Cells

Neurospheres can be derived from single-cell sorted 5F3+ cells

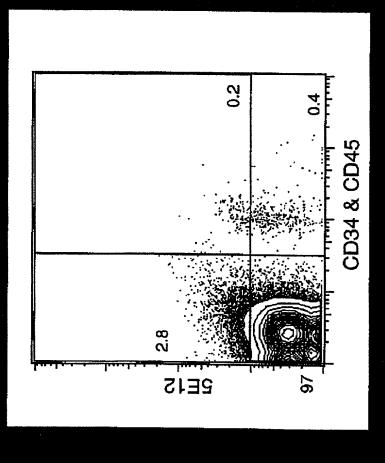
Week 8 NS-IC, 1 cell/well



FBR 1209 (16 G.W.)

solation of Human Neural Stem Cells by Cell Surface Markers

Neurosphere initiating cells can be separated using monoclonal antibody 5E12



F16.3

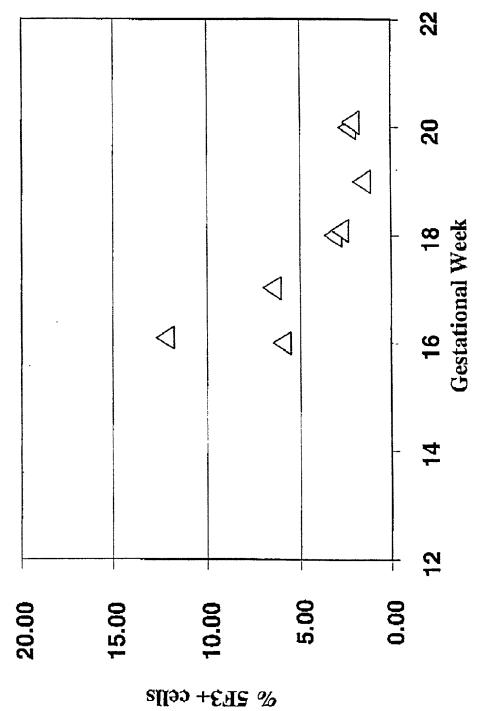
F/6.4

Distribution of 5F3+ cells in fetal brain

The frequency of 5F3+ cells is lower at later gestational ages.

Extensive proliferation of non-stem cells compartment?

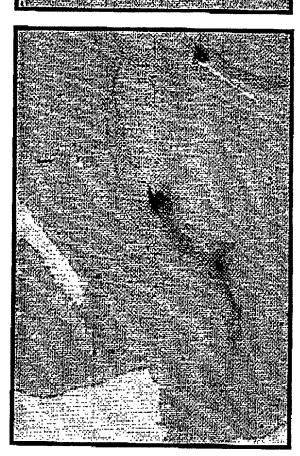
Need additional surface marker to subset 5F3+ cells?

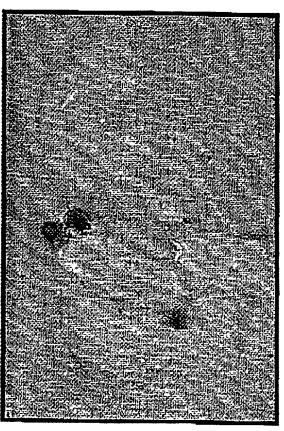


F/6.5

In vivo studies: Transplantation into NOD SCID mouse

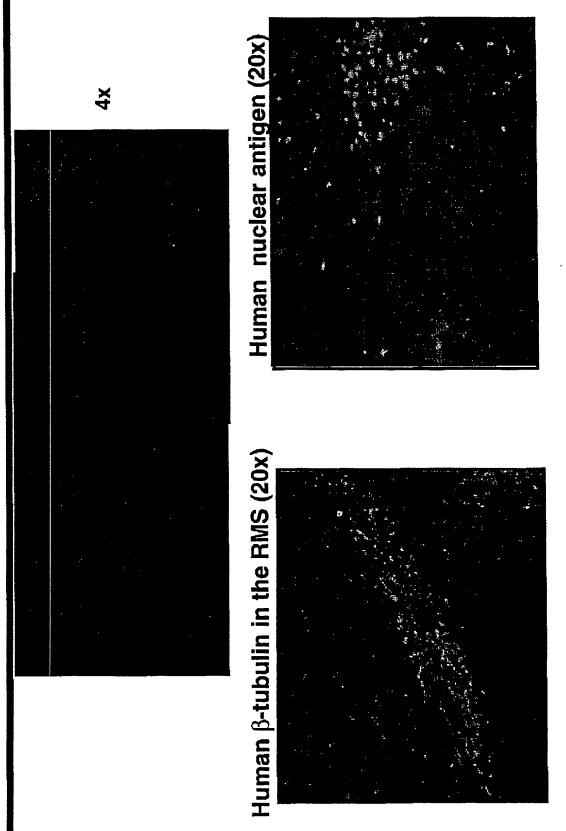
- Human neural cells can be transplanted into the lateral ventrical of neonatal immunodeficient mice
- Engraftment and migration of human neurosphere cells were detected between 4-8 weeks after injection using a human specific Thy-1 antibody





PROPRIETARY & CONFIDENTIAL

Progeny of 5F3+ Sorted Neurosphere Cells Migrate through the RMS

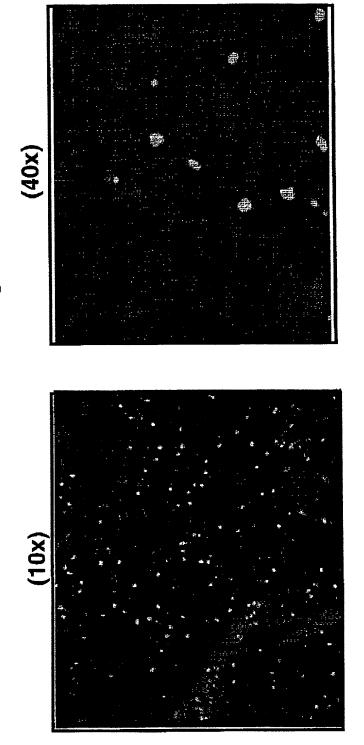


5F3+ sorted neurosphere cells (p8), 7 months post transplant

F16.7

Progeny of 5F3+ sorted neurosphere cells migrated throughthe RMS into Olfactory Bulb. Migration of Human Neural Cells into Olfactory Bulb

human nuclear antigen



5F3+ sorted neurosphere cells (p8), 7 months post transplant

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